

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/000652

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01P15/125 G01P1/00 G01P15/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y ✓	WO 98/52051 A (BOSCH GMBH ROBERT ;LAERMER FRANZ (DE); ELSNER BERNHARD (DE); FREY) 19 November 1998 (1998-11-19) page 2, line 5 - page 3, line 11 page 4, line 3 - page 9, line 13 figure 1	1-10, 12-17
Y ✓	US 2001/047688 A1 (FOOTE STEVEN A ET AL) 6 December 2001 (2001-12-06) paragraphs '0011!, '0012!, '0017!, '0031!, '0033! - '0035!; figures 1,2	1,6,7, 12,13
Y ✓	US 5 447 067 A (BIEBL MARKUS ET AL) 5 September 1995 (1995-09-05) column 1, line 55 - column 2, line 18 column 3, line 57 - line 63 column 5, line 25 - line 38 figure 3	2,3,10, 14
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

6 April 2005

Date of mailing of the international search report

27/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 2004/025589 A1 (KURLE JUERGEN ET AL) 12 February 2004 (2004-02-12) paragraphs '0001!', '0011!', '0013!', '0015!; figures 1,2</p>	4,5
Y	<p>US 2002/144548 A1 (ROEHNELT RYAN ET AL) 10 October 2002 (2002-10-10) paragraph '0027!; figure 3</p>	8
Y	<p>EP 0 338 688 A (HITACHI LTD) 25 October 1989 (1989-10-25) page 3, line 15 - line 28; claim 1</p>	9
Y	<p>US 2001/032508 A1 (JUNEAU THOR N ET AL) 25 October 2001 (2001-10-25) paragraph '0035!; figure 4</p>	15,16
Y	<p>US 5 559 290 A (SUZUKI SEIKO ET AL) 24 September 1996 (1996-09-24) column 11, line 8 - line 33; figure 32</p>	17
A	<p>US 5 392 650 A (O'BRIEN BENEDICT B ET AL) 28 February 1995 (1995-02-28) column 5, line 26 - line 54; figure 1</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2005/000652

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9852051	A	19-11-1998	DE 19719779 A1	12-11-1998
			WO 9852051 A1	19-11-1998
			EP 0981755 A1	01-03-2000
			JP 2001525927 T	11-12-2001
			US 6360604 B1	26-03-2002
US 2001047688	A1	06-12-2001	US 6119520 A	19-09-2000
			US 5948981 A	07-09-1999
			US 6745627 B1	08-06-2004
			DE 69711321 D1	02-05-2002
			DE 69711321 T2	31-10-2002
			EP 0840128 A1	06-05-1998
			EP 1314986 A1	28-05-2003
			EP 0900385 A1	10-03-1999
			JP 2000511282 T	29-08-2000
			WO 9744675 A1	27-11-1997
			US 6128957 A	10-10-2000
			US 6128956 A	10-10-2000
			US 6401535 B1	11-06-2002
			US 6041655 A	28-03-2000
US 5447067	A	05-09-1995	EP 0618450 A1	05-10-1994
			JP 6302832 A	28-10-1994
US 2004025589	A1	12-02-2004	DE 10038099 A1	21-02-2002
			WO 0212906 A1	14-02-2002
			EP 1307750 A1	07-05-2003
			JP 2004506203 T	26-02-2004
US 2002144548	A1	10-10-2002	NONE	
EP 0338688	A	25-10-1989	JP 1253657 A	09-10-1989
			JP 6072899 B	14-09-1994
			DE 68907981 D1	09-09-1993
			DE 68907981 T2	20-01-1994
			EP 0338688 A1	25-10-1989
			KR 9301730 B1	12-03-1993
			US 5095750 A	17-03-1992
US 2001032508	A1	25-10-2001	NONE	
US 5559290	A	24-09-1996	JP 2134570 A	23-05-1990
			JP 6023782 B	30-03-1994
			US 5392651 A	28-02-1995
			DE 68902534 D1	24-09-1992
			DE 68902534 T2	04-07-1996
			EP 0369352 A1	23-05-1990
			US 5095752 A	17-03-1992
US 5392650	A	28-02-1995	US 5205171 A	27-04-1993
			DE 4200293 A1	13-08-1992
			FR 2672130 A1	31-07-1992
			GB 2251693 A , B	15-07-1992
			GB 2280037 A , B	18-01-1995
			JP 5256870 A	08-10-1993